IFW

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

November 15, 2005

Signature: (James P. Zeller)

Docket No.: 29936/39762

(PATENT)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOV 1 7 2009

In re Patent Application of:

Sang Kyun Park

Application No.: 10/720,849

Filed: November 24, 2003

For: Method of Forming Copper Wiring in

Semiconductor Device

Group Art Unit: 2818

Examiner: Phuc T. Dang

# PETITION TO WITHDRAW HOLDING OF ABANDONMENT UNDER 37 C.F.R. § 1.181

Mail Stop Petitions Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.181, the applicants, through their undersigned attorney, hereby petition to withdraw the holding of abandonment and to remail a notice of allowance in the above-referenced application without penalty to the applicant.

No terminal disclaimer or fee is believed to be required.

A notice of abandonment for failure to timely pay the required issue fee and publication fee in this application was issued October 13, 2005. A review of the Patent and Trademark Office PAIR reads that a notice of allowance was mailed February 18, 2005. However, the notice of allowance was never received by the undersigned attorney's law firm.

Submitted herewith are the following:

- (a) a copy of a Notice of Abandonment dated October 13, 2005 (Exhibit "A");
- (b) a copy of the "Notice of Allowance and Fee(s) Due" dated February 18, 2005 (Exhibit "B");

**Application No. 10/720,849** 

Atty. Docket: 29936/39762

(c) a copy of the undersigned law firm's electronic database docketing record for application file 29936/39762 (U.S. Patent Application No. 10/720,849) showing that the

February 18, 2005, notice of allowance was never received (Exhibit "C"); and

(e) a declaration of James P. Zeller, the undersigned attorney for this application,

attesting on a personal knowledge basis that the February 18, 2005, notice of allowance was

never received (Exhibit "D").

Applicants submit that the guidelines for granting a "Petition to Withdraw Holding of

Abandonment" outlined in chapter 711.03(c)(I) of the Manual of Patent Examining Procedure

have been satisfied. In accordance with 37 C.F.R. § 1.181(f), this paper is timely filed, as it

is being submitted within two months of the mailing date of the notice of abandonment. No

petition fee is required.

In view of the foregoing, withdrawal of the holding of abandonment,

acknowledgement of the active status of this application, and re-issuance of a notice of

allowance are respectfully requested.

Although the applicants believe that no other fees are due, the Director is hereby

authorized to charge any deficiency in the fees filed, asserted to be filed or which should have

been filed herewith to our Deposit Account No. 13-2855.

If there are matters that can be discussed by telephone to further the prosecution of

this application, Applicants respectfully request that the examiner call its attorney at the

number listed below.

November 15, 2005

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN LLP

By:

James P. Zelle

Registration No. 28,491

Attorney for Applicants

233 South Wacker Drive 6300 Sears Tower Chicago, Illinois 60606-6357

(312) 474-6300

2 of 2



UNITED STATES PAR AND TRADEMARK OFFICE

NOV 1 7 2005

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.

FILING DATE

10/13/2005

IKST NAMED INVENTOR

ATTORNEY DOCKET NO.

CONFIRMATION NO.

10/720,849

11/24/2003

Sang Kyun Park

29936/39762

5192

RECEIVED

EXAMINER DANG, PHUC T

MARSHALL, GERSTEIN & BORUN LLP 233 S. WACKÉR DRIVE, SUITE 6300 **SEARS TOWER** 

OCT 2 1 2005

PAPER NUMBER

ART UNIT 2818

CHICAGO, IL 60606

MARSHALL GERSTEIN

**DATE MAILED: 10/13/2005** 

Please find below and/or attached an Office communication concerning this application or proceeding.

1			
• • •	Application No.	Applicant(s)	
Notice of Abandonment	10/720,849	Park	•
Notice of Abandonment	Examiner	Art Unit	
	Dang	2818	
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	ldress-
This application is abandoned in view of:			
1. Applicant's failure to timely file a proper reply to the Office  (a) A reply was received on (with a Certificate of N period for reply (including a total extension of time of)	Mailing or Transmission dated month(s)) which expired on _	<u></u> .	
(b) A proposed reply was received on, but it does			
(A proper reply under 37 CFR 1.113 to a final rejection application in condition for allowance; (2) a timely filed Continued Examination (RCE) in compliance with 37 (	Notice of Appeal (with appeal fee);		
(c) ☐ A reply was received on but it does not constitutional rejection. See 37 CFR 1.85(a) and 1.111. (See		mpt at a proper rep	ly, to the non-
(d) No reply has been received.			•
2. Applicant's failure to timely pay the required issue fee and from the mailing date of the Notice of Allowance (PTOL-8		the statutory period	of three months
<ul> <li>(a)           The issue fee and publication fee, if applicable, was, which is after the expiration of the statutory per Allowance (PTOL-85).</li> </ul>			
(b) ☐ The submitted fee of \$ is insufficient. A balance	e of \$ is due.		
The issue fee required by 37 CFR 1.18 is \$ 1	The publication fee, if required by 37	CFR 1.18(d), is \$	·
(c) $igtiis$ The issue fee and publication fee, if applicable, has no	ot been received.		
3. Applicant's failure to timely file corrected drawings as required Allowability (PTO-37).	ired by, and within the three-month	period set in, the No	otice of
(a) Proposed corrected drawings were received on after the expiration of the period for reply.	(with a Certificate of Mailing or Tran	nsmission dated	), which is
(b) \( \sum \) No corrected drawings have been received.			•
<ol> <li>The letter of express abandonment which is signed by the the applicants.</li> </ol>	e attorney or agent of record, the ass	ignee of the entire	nterest, or all of
5. The letter of express abandonment which is signed by an 1.34(a)) upon the filing of a continuing application.	attorney or agent (acting in a repres	sentative capacity u	nder 37 CFR
6. The decision by the Board of Patent Appeals and Interfere of the decision has expired and there are no allowed claim		se the period for sec	eking court review
7. The reason(s) below:			
		·	
		slk ·	•
Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw	w the holding of abandonment under 37 (	CFR 1.181, should be	promptly filed to

minimize any negative effects on patent term.

J.S. Patent and Trademark Office

TOL-1432 (Rev. 04-01)

# Attachment to Notice of Abandonment

# For questions concerning the notice contact Office of Patent Publication Image Assistance Center: 888-786-0101.

Information is also available on the USPTO Internet web site: http://www.uspto.gov/web/patents/pubs/abandonnotice.html

# Respond to the Notice of Abandonment by one of the following:

1. Petition To Withdraw Holding of Abandonment (See MPEP 711.03(c) I and 37 CFR § 1.181) No fee required

Where an applicant contends that the application is not in fact abandoned (e.g., a reply was in fact filed), a petition under 37 CFR § 1.181(a) requesting withdrawal of the holding of abandonment is the appropriate course of action. Any petition under 37 CFR § 1.181 to withdraw the holding of abandonment not filed within 2 months of the mail date of a Notice of Abandonment may be dismissed as untimely under 37 CFR § 1.181(f). In order for a petition to be granted, the evidence must be sufficient according to 37 CFR § 1.8(b) Certificate of Mailing 37 CFR § 1.10 "Express Mail" mailing or MPEP 503 Postcard Receipt as Prima Facie Evidence. The petition should be addressed as follows: By mail: Mail Stop: Issue Fee, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 By facsimile: 703-872-9306

2. Petition To Withdraw Holding Of Abandonment Based On Failure To Receive Office Action (MPEP 711.03(c) II and 37 CFR § 1.181). No fee required

Where an applicant contends that the original Notice of Allowance and Fee(s) Due was never received, if adequately supported, the Office may grant the petition and remail the Office action. The showing required establishing non-receipt of an Office communication must include a statement from the practitioner stating that the Office communication was not received and attesting to the fact that a search of the file jacket and docket records indicates that the Office communication was not received. A copy of the docket record where the nonreceived Office would have been entered had it been received and docketed must be attached to and referenced in practitioner's statement.

Petition should be addressed to the Technology Center handling the application as follows: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 By mail:

By facsimile: 703-872-9306

# 3. Petition To Revive An Abandoned Application (See MPEP 711.03(c) III)

Where there is no dispute as to whether an application is abandoned (e.g., the applicant's contentions merely involve the cause of abandonment) a petition under 37 CFR § 1.137 (a) or (b) (accompanied by the appropriate petition fee) is necessary to revive the abandoned application. The text of these rules is available on the USPTO Internet Web site. Forms for these petitions, "Petition For Revival Of An Application For Patent Abandoned Unavoidably Under 37 CFR § 1.137(a)," PTO/SB/61, and "Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b)," PTO/SB/64, are available in the forms section of the USPTO website: http://www.uspto.gov.

Petitions under 37 CFR § 1.137 should be addressed to the Office of Petitions as follows: Mail Stop Petition, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 By mail: By facsimile: 703-872-9306

Note: Abandonment takes place by operation of law for failure to reply to an Office action or timely pay the issue fee, not by operation of the mailing of a Notice of Abandonment



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
OMMISSIONER FOR PATENTS
Alexandria, Virginia 22313-1450
www.usplo.gev

### NOTICE OF ALLOWANCE AND FEE(S) DUE

04743

7590

02/18/2005

MARSHALL, GERSTEIN & BORUN LLP 6300 SEARS TOWER 233 S. WACKER DRIVE CHICAGO, IL 60606



EXA	MINER
DANG	, PHUC T
ART UNIT	PAPER NUMBER

DATE MAILED: 02/18/2005

2818

	·			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720 849	11/24/2003	Sang Kyun Park	29936/39762	5192

TITLE OF INVENTION: METHOD OF FORMING COPPER WIRING IN SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE PUBLICATION FEE		TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	05/18/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
2000 0200000			papers. Each additional paper, such as an assignment or formal drawing, must				
MARSHALL, GERSTEIN & BORUN LLP 6300 SEARS TOWER 233 S. WACKER DRIVE			E 4015	Ce	rtificate of Mailing or Transi his Fee(s) Transmittal is being with sufficient postage for firs il Stop ISSUE FEE address PTO (703) 746-4000, on the de	mission	
CHICAGO, IL 606		NOV 1				(Depositor's name)	
		12	<i>y</i>			(Signature)	
		A STATE OF THE STA			· .	(Date)	
APPLICATION NO.	FILING DATE	MAR	FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/720,849	11/24/2003	<del></del>	Sang Kyun P	ark	29936/39762	5192	
TITLE OF INVENTION: M	ETHOD OF FORMING CO	OPPER WIRING I	N SEMICONDUC	TOR DEVICE			
- APPLN. TYPE	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400	0	\$300	\$1700	05/18/2005	
EXAM	INER	ART UN	ит	CLASS-SUBCLASS			
DANG,	PHUCT .	2818	}	438-672000	_		
"Fee Address" indicate PTO/SB/47; Rev 03-02 of Number is required.  3. ASSIGNEE NAME AND	an assignee is identified be 37 CFR 3.11. Completion	ation form e of a Customer E PRINTED ON T clow, no assignce of this form is NO	or agents OR, a  (2) the name of registered attorn 2 registered pat listed, no name  THE PATENT (prindata will appear of I a substitute for file	a single firm (having as ney or agent) and the nan ent attorneys or agents. If will be printed.  Int or type) In the patent. If an assigning an assignment.	a member a 2	<u>-</u>	
Please check the appropriate			<del></del>		orporation or other private gro	up entity Government	
4a. The following fee(s) are e	enclosed:		. Payment of Fec(s				
_	nall entity discount permitte		$\overline{}$	n the amount of the fee(s) is enclosed. by credit card. Form PTO-2038 is attached.			
Advance Order - # of					harge the required fee(s), or c	redit any overpayment, to	
5. Change in Entity Status (		).			LL ENTITY status. See 37 CF	<del></del>	
					y paid issue fee to the applicat istered attorney or agent; or the		
Authorized Signature Date							
• • •	Typed or printed name Registration No						
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.							
Under the Paperwork Reducti	on Act of 1995, no persons	are required to resp	ond to a collection	of information unless it	displays a valid OMB control i	number.	



#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark, Office Address: COMMISSIONER FOR PATENTS P.O. Bon. 1450 Aksandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,849 11/24/2003 Sang Kyun Park		29936/39762 5192		
04743 · 7	590 02/18/2005	0 8	EXAM	NER
	ERSTEIN & BORUN	1 1//11/ 1	DANG, F	HUC T
6300 SEARS TOV 233 S. WACKER		图 2005	ART UNIT	PAPER NUMBER
CHICAGO, IL 600	606 ·		2818	
		TROOMAN OFFI	DATE MAILED: 02/18/2005	<b>i</b> .

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

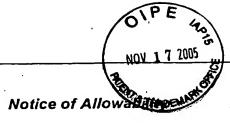
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 25 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 25 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



Application No.

Applicant(s)

10/720,849

Examiner

PHUC T. DANG

Applicant(s)

PARK, SANG KYUN

2818

Notice of Allowald the		Examiner Art Unit				
	PHUC T	. DANG	2818			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REM or other a GHTS. T	AINS) CLOSED in this app appropriate communication his application is subject to	dication. If not include will be mailed in due	ed course. THIS		
1. A This communication is responsive to November 24, 2003.		•	•			
2. The allowed claim(s) is/are 1-9.						
3.   The drawings filed on 24 November 2003 are accepted by	the Exam	iner.	· .			
4. ☑ Acknowledgment is made of a claim for foreign priority unallocation a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE *MAILING DATE* on the complexity of the priority documents have International Bureau (PCT Rule 17.2(a)).	been rec been rec cuments h	eived. eived in Application No nave been received in this i	national stage applica			
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note	e the attached EXAMINER'	S AMENDMENT or N	IOTICE OF		
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mus  (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the post attached Examiner's comment regarding REQUIREMENT in the sheet of the	on's Pate  Amendn  84(c)) sho ne header  sit of BIC	nt Drawing Review ( PTO- ment / Comment or in the C uld be written on the drawin according to 37 CFR 1.121(c DLOGICAL MATERIAL n	office action of ags in the front (not the state).			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892).  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948).  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material		5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment			
PHUC T. PRIMARY	DAN	c San	gy hur			
PRIMARY	EXA	MINER	() <b>(</b>			

Application/Control Number: 10/720,849

Art Unit: 2818



#### **DETAILED ACTION**

- 1. Claims 1-9 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

With respect to independent claims 1, the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a method of forming a copper wiring in a semiconductor device, comprising a step of forming a copper anti-diffusion insulating film and a second interlayer insulating film on the entire structure on which the metal element doping layer is formed, wherein a copper alloy layer and a metal oxide layer are formed at the interface of the copper wiring and the copper anti-diffusion insulating film due to heat upon depositing the insulating film, and the metal oxide layer is formed at the interface of layers around the copper wiring and the copper anti-diffusion insulating film, in combination with the rest of the limitations of independent claim 1.

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance".
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization

Art Unit: 2818

where this application or proceeding is assigned are 703-872-9306 for regular communications and After Final communications.

6. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Phuc T. Dang

Primary Examiner

Art Unit 2818

PM1001 Application Entry / Update 10:59:59 11/07/05 Docket Number: 39762 US UNITED STATES Status: .... Ritle: 01 METHOD OF FORMING COPPER WIRING IN Type: 02 SEMICONDUCTOR -DEVICE Related Docket#s Inventors: Date Added: 11/17/2003 NOV. 1 7 2005 . Attorneys: JPZ AGS Client: 29936 SHIN & KIM Convention: N Dwner Ref#: PO030301HD Small Entity: Confirm.No.: 5192 Carton Number: Date Forwarded: 11/24/03 Appl.Complete? Y Serial Number: 010/720849 CPA Filing: Group: 2812 Date Filed: 11/24/03 IDS Sent? Y PCT Flag: Priority Dt/No.:
Not. of Appeal Date/No.: Appl.Allowed: ..... Issue Fee Paid: Publication Dt: 1/13/05 [nterference Number: Agent:
Publ.No: US-2005-0009331-A1
Fax Service:
Taxes? Y. Assignee: HYNIX SEMICONDUCTOR INC.
Based on: KR 2003-46295 7/9/03 Reel/Frame: 015046/0061 Recorded: 3/08/04

F11-Cha#

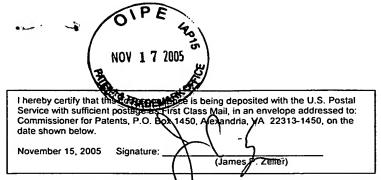
F24-Delete

ENTER-Accept F1-Actions F5-No Update F9-Issue

₽M1002		Patent Actions			11:00:12 11/07/05
	& KIM		US		Docket: <b>39762</b>
SEQ	Docket Dt.			Reply Date	Reply
	11/24/04	11/24/04	STAT	12/01/04	OFF PER MRH DOCKET
005	•		FRWD	11/24/03	EXE.DECL.; PRIOR.DOC. W/APP
006	02/24/04	02/24/04	*INF	07/21/05	IDS W/CM
007.	02/24/04	02/24/04	ASSN	03/04/04	FRWD ASSN FOR RECORDAL W/CM
800			RECD	09/28/05	SIGNED IDS
009			RECD	10/13/05	NOTICE OF ABANDONMENT

0.00

ENTER-Add/Update line F1-Return F5-New Record Roll Up/Roll Down



Docket No.: 29936/39762

(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Sang Hyun Park

Application No.: 10/720,849

Group Art Unit: 2818

Filed: November 24, 2003

Examiner: Phuc T. Dang

For: METHOD OF FORMING COPPER WIRING IN

SEMICONDUCTOR DEVICE

#### **DECLARATION OF JAMES P. ZELLER**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

James P. Zeller, hereby declares as follows:

- 1. I am an attorney of law, and a partner with the law firm Marshall, Gerstein & Borun LLP in Chicago, Illinois, and am a registered practitioner before the United States Patent and Trademark Office (the "PTO") with Registration Number 28,491.
- 2. I am an attorney responsible for prosecuting the above-referenced application (the "application").
- 3. My firm received a notice of an issued abandonment dated October 13, 2005, in this application. The Notice for failure to timely pay the required issue fee and publication fee.
- 4. However, no one at our firm received the notice of allowance which was mailed by the PTO on February 18, 2005. I learned of the mailing of the notice of allowance only after the PAIR database for this application was checked after my firm received the notice of abandonment.

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5. A copy of our electronic docketing record for application file 29936/39762 (U.S. Patent Application Number 10/720,849) is attached to the accompanying "Petition to Withdraw Holding of Abandonment Under 37 C.F.R. § 1.181" as Exhibit "C."

6. As clearly shown from the accompanying petition and attachments, the notice of allowance was never received by this firm and must be deemed lost without any penalty to the applicants.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

November 15, 2005

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN LLP

By:

James P. Zeffer Registration No. 28,491

Attorney for Applicants

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